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NOTICE OF ALLOWANCE AND FEE(S) DUE

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7590

10/08/2010

LEYDIG VOIT & MAYER, LTD TWO PRUDENTIAL PLAZA, SUITE 4900 180 NORTH STETSON AVENUE CHICAGO, IL 60601-6731

EXAMINER				
BURKHART, MICHAEL D				
ART UNIT	PAPER NUMBER			
1633				

DATE MAILED: 10/08/2010

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/463,890	04/28/2000	ULRICH H. KOSZINOWSKI	203676	6925

TITLE OF INVENTION: RECOMBINANT VECTOR CONTAINING INFECTIOUS, VIRAL GENOME SEQUENCES GREATER THAN 100 KB, METHOD FOR PRODUCING SAME AND USE FOR THE MUTAGENESIS OF THE VIRAL SEQUENCES

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$0	\$0	\$1510	01/10/2011

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or <u>Fax</u> (571)-273-2885

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where m

appropriate. All further indicated unless correct maintenance fee notifica	ed below or directed oth	ng the Patent, advance onerwise in Block 1, by (orders and notification of a) specifying a new corr	maintenance fees espondence address	will be ; and/or	mailed to the current (b) indicating a sepa	correspondence address as arate "FEE ADDRESS" for
CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)				Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.			
23460 7590 10/08/2010 LEYDIG VOIT & MAYER, LTD TWO PRUDENTIAL PLAZA, SUITE 4900 180 NORTH STETSON AVENUE			па				
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CHICAGO, IL 6	60601-6731		Γ				(Depositor's name)
			Γ				(Signature)
							(Date)
APPLICATION NO.	FILING DATE		FIRST NAMED INVENTO	R	ATTO	RNEY DOCKET NO.	CONFIRMATION NO.
09/463,890	04/28/2000	J	JLRICH H. KOSZINOW	SKI		203676	6925
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EXAM	IINER	ART UNIT	CLASS-SUBCLASS				
BURKHART,	MICHAEL D	1633	435-320100				
CFR 1.363). Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached. "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer Number is required. 3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON			(1) the names of up to 3 registered patent attorneys or agents OR, alternatively, (2) the name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed.				
PLEASE NOTE: Unl recordation as set fort (A) NAME OF ASSIG	less an assignee is ident h in 37 CFR 3.11. Comp GNEE	ified below, no assignee oletion of this form is NO	data will appear on the T a substitute for filing a (B) RESIDENCE: (CIT	patent. If an assign assignment. Y and STATE OR	COUNT	TRY)	ocument has been filed for
Please check the appropr	iate assignee category or	categories (will not be pa	rinted on the patent):	Individual 🗖 C	orporati	on or other private gro	oup entity Government
4a. The following fee(s)	are submitted:	4	b. Payment of Fee(s): (Pl		ny prev	iously paid issue fee	shown above)
Issue Fee	Jo small entity discount p	:	☐ A check is enclosed. ☐ Payment by credit card. Form PTO-2038 is attached.				
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5. Change in Entity Sta	tus (from status indicateds SMALL ENTITY state	· · · · · · · · · · · · · · · · · · ·	☐ b. Applicant is no lo				
NOTE: The Issue Fee an	d Publication Fee (if rea	uired) will not be accepte	ed from anyone other than				ne assignee or other party in
interest as shown by the	records of the United Sta	tes Patent and Trademark	COffice.				
Authorized Signature				Date			
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	AL PLAZA, SUITE 49	000	ART UNIT	PAPER NUMBER
180 NORTH STETSON AVENUE CHICAGO, IL 60601-6731			1633 DATE MAILED: 10/08/201	0

Determination of Patent Term Extension under 35 U.S.C. 154 (b)

(application filed after June 7, 1995 but prior to May 29, 2000)

The Patent Term Extension is 0 day(s). Any patent to issue from the above-identified application will include an indication of the 0 day extension on the front page.

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Extension is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 (571)-272-4200.

	Application No.	Applicant(s)	
	09/463,890	KOSZINOWSKI ET	ĪΑI
Notice of Allowability	Examiner	Art Unit	
	 Michael Burkhart	1633	
The MAILING DATE of this communication apperature All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R of the Office or upon petition by the applicant. See 37 CFR 1.313	ears on the cover sheet v (OR REMAINS) CLOSED or other appropriate comming the comming of the comming the comming of the comming the comming of the cover sheet value	vith the correspondence add in this application. If not include nunication will be mailed in due	ded e course. THIS
1. This communication is responsive to the amendment date.	<u>d 6/21/2010</u> .		
2. The allowed claim(s) is/are 36,37 and 40-70.			
 3. Acknowledgment is made of a claim for foreign priority unany All b) Some* c) None of the: 1. Certified copies of the priority documents have 2. Certified copies of the priority documents have 3. Copies of the certified copies of the priority documents have International Bureau (PCT Rule 17.2(a)). 	e been received. e been received in Applicat	ion No	ation from the
* Certified copies not received: Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		le a reply complying with the re	equirements
4. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give			NOTICE OF
5. CORRECTED DRAWINGS (as "replacement sheets") mus	st be submitted.		
(a) I including changes required by the Notice of Draftspers	son's Patent Drawing Revi	ew (PTO-948) attached	
1) 🔲 hereto or 2) 🔲 to Paper No./Mail Date			
(b) ☐ including changes required by the attached Examiner' Paper No./Mail Date			
Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in t			e back) of
6. DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT			Note the
Attachment(s) 1. ☐ Notice of References Cited (PTO-892)	5 Motion of	Informal Datont Application	
 Induce of References Cited (PTO-692) Induce of References Cited (PTO-		Informal Patent Application Summary (PTO-413),	
,	Paper No	o./Mail Date	
 Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date 		's Amendment/Comment	
 Examiner's Comment Regarding Requirement for Deposit of Biological Material 	8. ☑ Examiner' 9. ☐ Other	's Statement of Reasons for All	owance
/Michael Burkhart/			
Primary Examiner, Art Unit 1633			

REASONS FOR ALLOWANCE

The following is an examiner's statement of reasons for allowance:

The 35 USC 103 rejection set forth in the previous Office Action relies upon Messerle et al (1996) and Kemble et al (1996) to arrive at the claimed vectors and methods. Messerle et al teach two BACs that when used together in the same cell provide the claimed features, and Kemble et al teach the entire 230-kbp CMV genome arranged on eight cosmids which are all linearized, transfected, and then concatamerize into a molecule that closely mimics, or may be a near identical replica of, the CMV genome within the eukaryotic cell (see e.g. Fig. 1a of Brune et al, 2000, of record). Thus, applicants assertions that the methods of Kemble et al do not produce a CMV genome are unconvincing. However, the withdrawal of the 35 USC 103 rejection is not reliant upon applicants arguments. The proposed combination of Messerle and Kemble et al appears to have been attempted by the disclosure of Messerle et al, but did not result in the claimed vector as set forth above. That is, Messerle et al teach an attempt to incorporate a circular or concatamerized (i.e. the same type of genome taught by Kemble et al) CMV genome into a single BAC vector, but failed to do so. Furthermore, the evidence and reasoning set forth in the declarations by Drs. Koszinowski and Messerle regarding the difficulty in applying prior art methods of cloning large (e.g. > 100-kbp) DNA fragments are an apt summary of the state of the art at the time the instant application was filed.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Application/Control Number: 09/463,890

Art Unit: 1633

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Michael Burkhart whose telephone number is (571)272-2915. The examiner can normally be reached on M-F 8AM-5PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Joseph Woitach can be reached on (571) 272-0739. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Michael Burkhart/ Primary Examiner, Art Unit 1633

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